

ABSTRACT

Disclosed is a unit cell for use in a bipolar, filter press type electrolytic cell comprising a plurality of unit cells arranged in series through a cation exchange membrane disposed 5 between respective adjacent unit cells, each unit cell comprising anode-side and cathode-side pan-shaped bodies having anode-side and cathode-side gas-liquid separation chambers respectively extending over the entire lengths of the upper sides of anode and cathode compartments, wherein the anode-side 10 and cathode-side gas-liquid separation chambers have perforated bottom walls separating the anode-side and cathode-side gas-liquid separation chambers from the anode and cathode compartments, respectively, wherein a bubble removing partition wall is disposed at least in the anode-side gas-liquid separation 15 chamber of both gas-liquid separation chambers and extends upwardly of the perforated bottom wall of the gas-liquid separation chamber and along the entire length of the gas-liquid separation chamber to partition the gas-liquid separation chamber into first and second passages A and B 20 respectively formed in a perforated area and a non-perforated area of the bottom wall, wherein passage B communicates with a gas and liquid outlet nozzle, and wherein the bubble removing partition wall has an apertured segment having apertures which are positioned at least 10 mm above the inside surface of the